**Homework 90** Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
**Review!** Period\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| 1) Write the formula for the volume of a prism. | 2) Write the formula for the volume of a cylinder. |
| 3) Describe how to find the surface area of a prism.    \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 4) Describe how to find the surface area of a cylinder.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 5) Use the dimension below.     1. Find the surface area. 2. Find the volume. | 6) The length of one side of a cube is 4 cm.   1. What is the area of one face of the cube? 2. What is the full surface area of the cube? 3. What is the volume of the cube? |
| 7) Use the dimensions below.     1. Find the volume.   Exact: \_\_\_\_\_\_\_\_\_\_\_\_ Approximate: \_\_\_\_\_\_\_\_\_\_\_\_\_   1. Find the surface area.   Exact: \_\_\_\_\_\_\_\_\_\_\_\_ Approximate: \_\_\_\_\_\_\_\_\_\_\_\_\_ | 8) Use the dimensions below.     1. Find the volume.   Approximate: \_\_\_\_\_\_\_\_\_\_\_\_\_   1. Find the surface area.   Approximate: \_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 9) A property owner wants to build a floor in the backyard that will be 6 feet by 10 feet. He has bricks that are 4 inches wide, 2 inches tall, and 8 inches long. How many bricks will he need to lay in order to build this floor?  Step 1: Find MAX surface area of the bricks  Step 2: Find area of backyard (convert units if needed)  Step 3: Find # of bricks | 10) Michael is going to cover his hallway with carpet. The carpet will come in strips that measure 16 inches by 18 inches. Michael plans to staple the strips of carpet down so there is no space in between them. If Michael’s hallway is 10 feet by 6 feet, what is the minimum number of strips that he will need to fully cover his hallway?  Step 1: Find MAX surface area of the strips  Step 2: Find area of hallway (convert units if needed)  Step 3: Find # of strips |
| 11) Use the dimensions below.     1. Find the surface area. 2. Find the volume. | 12) Use the dimension below.     1. Find the surface area. 2. Find the volume. |
| 13) A cube has side lengths of 3 cm.   1. Find the full surface area. 2. Find the volume. | 8) Find the surface area of the cylinder. |